

High Ripple Current Aluminum Electrolytic Capacitor

SPKE19 Series

- +105°C, High ripple current, high temperature, Standard.
- Specially designed for electronic ballast and energy-save lamp.
- For the special designing requirement, please contact us.



Specifications

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C								
Rated Voltage Range	200 to 450VDC								
Capacitance Range	1 to 100uF								
Capacitance Tolerance	±20%(120Hz, +20°C)								
Leakage Current	Rated voltage(V)	200~250 350~450							
	LC	0.01CV(uF) or 3uF at 20°C, after 2 minutes, whichever is greater 0.06CV + 10uF(1 minute)							
Dissipation Factor(tan δ)	(+20°C, at 120Hz)	Working Voltage(VDC)	6.3	10	16	25	35	50	63
		D.F.(%)max	20	17	13	10	8	8	8
Low Temperature Characteristics (120Hz)	impedance ratio max.	Working Voltage(VDC)	200	250	350	400	450		
		Z-40°C/Z+20°C	0.15	0.15	0.20	0.20	0.20		
Load Life	Test conditions								
	Duration time	: 3000 Hrs							
	Ambient temperature	: +105°C							
	Applied voltage	: Rated DC working voltage							
	After test requirements at +20°C								
	Capacitance change	: ≤±30% of the initial measured value							
	Dissipation factor	: ≤300% of the initial specified value							
Leakage current	: ≤The initial specified value								
Shelf Life	Test conditions								
	Duration time	: 1000Hrs							
	Ambient temperature	: +105°C							
	Applied voltage	: None							
	After test requirements at +20°C	: Same limits as Load life							
	Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes								

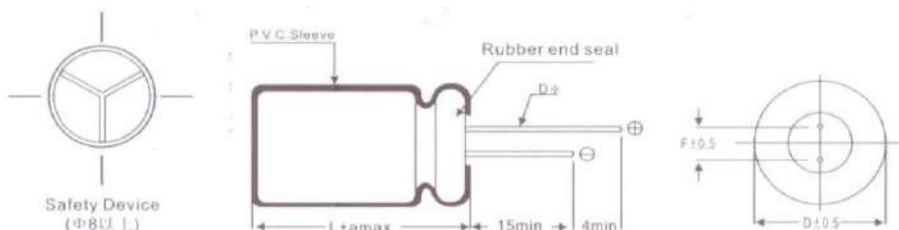
Multiplier for Ripple Current vs. Frequency

Frequency(Hz)	120	1K	10K~30K	30K~100K
Multiplier	0.5	0.80	0.90	1.00

Multiplier for Ripple Current vs. Temperature

Temperature(°C)	65	85	105
Multiplier	2	1.65	1

Diagram of Dimensions:(unit:mm)



Dø	8	10	13	16
F	3.5	5.0		7.5
dø	0.5	0.6		0.8

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Case Size

øD×L (mm)

WV uF	200V		250		350		400		450	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1					8×12	50	8×12	60	8×12	70
1.8					8×12	58	8×12	68	10×13	78
2.2					8×12	60	10×13	70	10×13	80
							8×12			
3.3			8×12	70	10×13	75	10×16	85	10×16	95
4.7			8×12	90	10×16	115	10×20	125	10×20	135
			10×13				10×16			
6.8			8×16	99	10×13	140	10×20	150	13×20	160
8.2			10×16	110	13×20	250	13×20	200	13×20	270
10	8×16	235	10×20	150	13×20	250	13×20	230	13×20	270
	10×16		10×16							
15	10×20	235	10×20	250	13×20	260	13×25	270	13×25	280
22	10×20	235	13×20	280	13×25	270	13×25	280	16×25	290
33	13×20	300	13×20	320	16×25	290	16×30	300	16×30	310
			13×25							
47	13×20	300	13×25	320	16×30	355	16×35	365	16×35	375
	13×25						16×30			
68	16×25	365	16×25	375						
100	16×30	600	16×30	620						

Rated ripple current (mA, +105°C, 100KHz)